

# IL-19 (A-9): sc-393300

## BACKGROUND

IL-14 (high-molecular-weight B-cell growth factor or HMW-BCGF) is a protein that plays a significant role in the rapid proliferation of aggressive B-cell type non-Hodgkin's lymphoma. IL-19 and IL-20 are IL-10-related cytokines. IL-19 is involved in melanoma differentiation, and IL-20 plays an essential role in epidermal function and psoriasis. Like other interleukin molecules, IL-21 is a small secreted molecule, and it has potent effects on lymphoid cells. IL-21 is most closely related to IL-2 and IL-15 and has a role in the proliferation and maturation of natural killer cell populations from bone marrow, in the proliferation of mature B-cell populations co-stimulated with anti-CD40, and in the proliferation of T cells co-stimulated with anti-CD3.

## REFERENCES

1. Ford, R., et al. 1995. Identification of B-cell growth factors (interleukin-14; high molecular weight-B-cell growth factors) in effusion fluids from patients with aggressive B-cell lymphomas. *Blood* 86: 283-293.
2. Gallagher, G., et al. 2000. Cloning, expression and initial characterization of interleukin-19 (IL-19), a novel homologue of human interleukin-10 (IL-10). *Genes Immun.* 1: 442-450.
3. Parrish-Novak, J., et al. 2000. Interleukin 21 and its receptor are involved in NK cell expansion and regulation of lymphocyte function. *Nature* 408: 57-63.
4. Blumberg, H., et al. 2001. Interleukin 20: discovery, receptor identification, and role in epidermal function. *Cell* 104: 9-19.
5. Vosschenrich, C.A. and Di, Santo, J.P. 2001. Cytokines: IL-21 joins the  $\gamma_c$ -dependent network? *Curr. Biol.* 11: R175-R177.

## CHROMOSOMAL LOCATION

Genetic locus: IL19 (mouse) mapping to 1 E4.

## SOURCE

IL-19 (A-9) is a mouse monoclonal antibody raised against amino acids 17-161 mapping within an internal region of IL-19 of mouse origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IL-19 (A-9) is available conjugated to agarose (sc-393300 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393300 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393300 PE), fluorescein (sc-393300 FITC), Alexa Fluor<sup>®</sup> 488 (sc-393300 AF488), Alexa Fluor<sup>®</sup> 546 (sc-393300 AF546), Alexa Fluor<sup>®</sup> 594 (sc-393300 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-393300 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-393300 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-393300 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

IL-19 (A-9) is recommended for detection of IL-19 of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

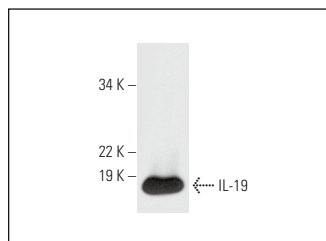
Suitable for use as control antibody for IL-19 siRNA (m): sc-146209, IL-19 shRNA Plasmid (m): sc-146209-SH and IL-19 shRNA (m) Lentiviral Particles: sc-146209-V.

Molecular Weight of IL-19: 18 kDa.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



IL-19 (A-9): sc-393300. Western blot analysis of mouse recombinant IL-19.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.